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PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application of:

Xiaodong Li et al.

Application No.: 10/051,348

Filed: January 17, 2002

For: Multi-Carrier Communication With

Time Division Multiplexing And

Carrier-Selective Loading

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Examiner: Unknown Technology Center 2600

Art Unit: 2154

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Commissioner for Patents Washington, DC 20231

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Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

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				VADEMAN!	NT DOCUMENTS	· ·	
Exam.	Cite	U.S. Patent I	Document		tentee or Applicant	Date of Publication of	Pages, Columns, Lines,
Initial*	No. <sup>1</sup>	Number Code <sup>2</sup>	Kind (If known)	of Citi	ed Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear
	Н	6,377,632	B1	Pai	ulraj et al.	04/23/2002	
	ı	6,131,016		Gree	nstein et al.	10/10/2000	
	7	6,067,290		Pai	ulraj et al.	05/23/2000	
	K	6,064,694		Cl	ark et al.	05/16/2000	
	L	6,064,692			Chow	05/16/2000	
	М	6,052,594		Chu	ang et al.	04/18/2000	
	N	6,041,237			arsakh	03/21/2000	
	0	6,026,123		V	Villiams	02/15/2000	
	Р	6,005,876		Cimi	ni Jr. et al.	12/21/1999	
	a	5,973,642		1	_i et al.	10/26/1999	

Larsson et al.

Cimini et al.

Frodigh et al.

Ritter

Fattouche et al.

Chouly et al.

Chow et al.

Technology Center 2100

SEP 2 3 2002

09/21/1999

06/22/1999

03/10/1998

01/13/1998

09/10/1996

04/02/1996

12/26/1995

FOREIGN PATENT DOCUMENTS								
Exam. Initial*	Cite No. <sup>1</sup>	Foreign Patent Document  Office <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (If known)		Number <sup>4</sup> Kind Code <sup>5</sup> of Cited Document		Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	Y EP 0 869 647 A2		Lucent Technologies Inc.	10/07/1998				

Examiner	Date Considered	
Signature		

5,956,642

5,914,933

5,726,978

5,708,973

5,555,268

5,504,775

5,479,447

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<sup>&</sup>lt;sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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SEP 1 9 2002	8					ndwidth-Efficient High- ions Magazine, July 20			rvice for	
PRADEMARY	FAA	IEEE Journa	al on S	elected A	Areas in	M With Adaptive Subca Communications, Octo 758, XP000854075, IS	ober 1999	, IEEE Inc., Ne	w York,	
	BB TSOULOS, G.V., Smart Antennas For Mobile Communication Systems: Benefits And Challenges, Electronics & Communication Engineering Journal, April 1999, pp. 84-94.									
	СС	SHAD et al., 868-872.	, Indoo	or SDMA	Capacit	y Using a Smart Anten	nna Bases	tation, 1997 IE	EE, pp.	
	DD	FARSAKH, ( Through SD				EK, JOSEF A., <i>On the</i> 7).	Mobile R	adio Capacity I	ncrease	
	EE		Strategi	es, IEEE		nce in Cellular Environ ctions on Vehicular Tec				el .
	FF	XU, GUANG	3HAN	and LI, S		Throughput Multiplicati 1994 IEEE, pp. 1326-13		eless Lans for l	Multimedi	а
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